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Reviewer: Anne Corrigan

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Application No: 10560103 Version No: 1.0

Input Set:

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SEQUENCE LISTING

<110> MCNAGNY, Kelly M.
ROSKELLEY, Calvin
MERKENS, Helen
SOMASIRI, Aruna
HUNTSMAN, David

<120> METHODS FOR DETECTING AND TREATING CANCER

<130> 7685-102

<140> 10560103
<141> 2007-09-04

<150> US 60/476,622
<151> 2003-06-09

<160> 10

<170> PatentIn version 3.3

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<211> 605
<212> PRT
<213> Homo sapiens

<400> 1

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Leu Leu Leu Leu Val Gly Gly Ala Phe Leu Gly Ala Cys Val Ala
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Gly Ser Asp Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu
35 40 45

Asp Leu Leu Leu Pro Thr Gly Leu Glu Pro Leu Asp Ser Glu Glu Pro
50 55 60

Ser Glu Thr Met Gly Leu Gly Ala Gly Leu Gly Ala Pro Gly Ser Gly
65 70 75 80

Phe Pro Ser Glu Glu Asn Glu Glu Ser Arg Ile Leu Gln Pro Pro Gln
85 90 95

Tyr Phe Trp Glu Glu Glu Glu Leu Asn Asp Ser Ser Leu Asp Leu
100 105 110

Gly Pro Thr Ala Asp Tyr Val Phe Pro Asp Leu Thr Glu Lys Ala Gly
115 120 125

Ser Ile Glu Asp Thr Ser Gln Ala Gln Glu Leu Pro Asn Leu Pro Ser
130 135 140

Pro Leu Pro Lys Met Asn Leu Val Glu Pro Pro Trp His Met Pro Pro
145 150 155 160

Arg Glu Glu Glu Glu Glu Glu Glu Glu Arg Glu Lys Glu
165 170 175

Glu Val Glu Lys Gln Glu Glu Glu Glu Glu Leu Leu Pro Val
180 185 190

Asn Gly Ser Gln Glu Glu Ala Lys Pro Gln Val Arg Asp Phe Ser Leu
195 200 205

Thr Ser Ser Ser Gln Thr Pro Gly Ala Thr Lys Ser Arg His Glu Asp
210 215 220

Ser Gly Asp Gln Ala Ser Ser Gly Val Glu Val Glu Ser Ser Met Gly
225 230 235 240

Pro Ser Leu Leu Pro Ser Val Thr Pro Thr Thr Val Thr Pro Gly
245 250 255

Asp Gln Asp Ser Thr Ser Gln Glu Ala Glu Ala Thr Val Leu Pro Ala
260 265 270

Ala Gly Leu Gly Val Glu Phe Glu Ala Pro Gln Glu Ala Ser Glu Glu
275 280 285

Ala Thr Ala Gly Ala Ala Gly Leu Ser Gly Gln His Glu Glu Val Pro
290 295 300

Ala Leu Pro Ser Phe Pro Gln Thr Thr Ala Pro Ser Gly Ala Glu His
305 310 315 320

Pro Asp Glu Asp Pro Leu Gly Ser Arg Thr Ser Ala Ser Ser Pro Leu
325 330 335

Ala Pro Gly Asp Met Glu Leu Thr Pro Ser Ser Ala Thr Leu Gly Gln
340 345 350

Glu Asp Leu Asn Gln Gln Leu Leu Glu Gly Gln Ala Ala Glu Ala Gln
355 360 365

Ser Arg Ile Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp Ser
370 375 380

Asn Leu Ala Gly Lys Asn Tyr Ile Ile Leu Asn Met Thr Glu Asn Ile
385 390 395 400

Asp Cys Glu Val Phe Arg Gln His Arg Gly Pro Gln Leu Leu Ala Leu
405 410 415

Val Glu Glu Val Leu Pro Arg His Gly Ser Gly His His Gly Ala Trp
420 425 430

His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu Met
435 440 445

Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu Ser
450 455 460

Met Leu Gly Asp Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln Asn
465 470 475 480

Tyr Ser Thr Thr Ser Cys Gln Ala Arg Ala Ser Gln Val Arg Ser
485 490 495

Asp Tyr Gly Thr Leu Phe Val Val Leu Val Val Ile Gly Ala Ile Cys
500 505 510

Ile Ile Ile Ala Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg Arg
515 520 525

Leu Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe Val
530 535 540

Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp Ser
545 550 555 560

Gln Ser Glu Met Gln Glu Lys His Pro Ser Leu Asn Gly Gly Gly Ala
565 570 575

Leu Asn Gly Pro Gly Ser Trp Gly Ala Leu Met Gly Gly Lys Arg Asp
580 585 590

Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
595 600 605

<210> 2
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<212> PRT
<213> Mus musculus

<400> 2

Met Ala Arg Pro Leu Arg Ala Ala Arg Leu Pro Pro Pro Leu Leu Leu
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Leu Leu Ala Ala Gly Ala Ser Leu Gly Ala Tyr Ala Val Gly Val Asp
20 25 30

Glu Pro Gly Pro Glu Gly Leu Thr Ser Thr Ser Leu Leu Asp Leu Leu
35 40 45

Leu Pro Thr Asp Phe Glu Pro Leu Asp Ser Glu Glu Pro Ser Glu Ala
50 55 60

Met Gly Leu Asp Ala Gly Leu Ala Pro Gly Ser Gly Phe Pro Ser Glu
65 70 75 80

Asp Ser Glu Glu Ser Arg Leu Leu Gln Pro Pro Gln Tyr Phe Trp Glu
85 90 95

Glu Glu Glu Leu Asn Gly Ser Ser Leu Asp Leu Gly Pro Thr Ala Asp
100 105 110

Tyr Val Phe Pro Asp Leu Thr Glu Lys Val Ala Ser Met Glu Asp Pro
115 120 125

Gly Gln Ala Pro Asp Leu Pro Asn Leu Pro Ser Ile Leu Pro Lys Met
130 135 140

Asp Leu Ala Glu Pro Pro Trp His Met Pro Leu Gln Glu Glu Glu
145 150 155 160

Glu Glu Glu Glu Glu Glu Glu Arg Glu Glu Glu Glu Arg Glu Lys
165 170 175

Glu Ala Glu Glu Glu Glu Lys Gly Lys Ser Leu Leu Pro Val Asn
180 185 190

Arg Val Pro Lys Glu Pro Pro Ala Gln Ala His Ala Pro Ser Pro Ser
195 200 205

Thr Ser Ser Ser Thr Ser Ser Gln Ser Pro Gly Ala Thr Arg His Arg
210 215 220

Gln Glu Asp Ser Gly Asp Gln Ala Thr Ser Gly Met Glu Val Glu Ser
225 230 235 240

Ser Val Lys Pro Thr Leu Ser Val Pro Ser Val Thr Pro Ser Thr Val
245 250 255

Ala Pro Gly Val Gln Asn Tyr Ser Gln Glu Ser Gly Gly Thr Glu Trp
260 265 270

Pro Thr Gly Gly Leu Gly Val Gln Ser Glu Val Pro Gln Gly Ala Gly
275 280 285

Glu Gly Ala Thr Val Gly Ala Ala Asp Phe Asp Gly Gln Gln Gly Ala
290 295 300

Leu Pro Ser Ser Ser Leu Pro Gln Thr Val Pro Pro Ser Gly Thr Glu
305 310 315 320

Val Pro Ser Glu Gly Pro Leu Tyr Pro Arg Ile Pro Asp Ser Leu Pro
325 330 335

Pro Gly Pro Gln Asp Thr Glu Ser Thr Pro Ser Ser Ala Thr Trp Gly
340 345 350

Gln Glu Gly Leu Ser Glu Gln Pro Leu Glu Gly Gln Ala Ala Glu Ala
355 360 365

His Ser Leu Thr Pro Trp Asp Ser Thr Gln Val Ile Cys Lys Asp Trp
370 375 380

Ser Asn Leu Ala Gly Lys Ser Tyr Ile Ile Leu Asn Met Thr Glu Asn
385 390 395 400

Ile Asp Cys Glu Val Phe Arg Arg His Arg Gly Leu Arg Leu Leu Ala
405 410 415

Leu Val Glu Glu Val Leu Pro Arg His Arg Ser Gly His Arg Gly Asp
420 425 430

Trp His Ile Ser Leu Ser Lys Pro Ser Glu Lys Glu Gln His Leu Leu
435 440 445

Met Thr Leu Val Gly Glu Gln Gly Val Val Pro Thr Gln Asp Val Leu
450 455 460

Ser Met Leu Ser Gly Ile Arg Arg Ser Leu Glu Glu Ile Gly Ile Gln
465 470 475 480

Asn Tyr Ser Thr Thr Ser Ser Cys Gln Ala Arg Ala Thr Gln Val Arg
485 490 495

Ser Asp Tyr Gly Thr Leu Phe Val Val Leu Val Ile Ile Gly Val Ile
500 505 510

Cys Phe Ile Ile Ile Val Leu Gly Leu Leu Tyr Asn Cys Trp Gln Arg
515 520 525

Arg Met Pro Lys Leu Lys His Val Ser His Gly Glu Glu Leu Arg Phe
530 535 540

Val Glu Asn Gly Cys His Asp Asn Pro Thr Leu Asp Val Ala Ser Asp
545 550 555 560

Ser Gln Ser Glu Met Gln Glu Lys Gln Pro Ser Leu Asn Gly Gly Ala
565 570 575

Ile Asn Gly Pro Ser Ser Trp Ser Ala Leu Met Gly Ser Lys Arg Asp
580 585 590

Pro Glu Asp Ser Asp Val Phe Glu Glu Asp Thr His Leu
595 600 605

<210> 3
<211> 528
<212> PRT
<213> Homo sapiens

<400> 3

Met Arg Cys Ala Leu Ala Leu Ser Ala Leu Leu Leu Leu Ser Thr
1 5 10 15

Pro Pro Leu Leu Pro Ser Ser Pro Ser Pro Ser Pro Ser Pro
20 25 30

Ser Gln Asn Ala Thr Gln Thr Thr Asp Ser Ser Asn Lys Thr Ala
35 40 45

Pro Thr Pro Ala Ser Ser Val Thr Ile Met Ala Thr Asp Thr Ala Gln
50 55 60

Gln Ser Thr Val Pro Thr Ser Lys Ala Asn Glu Ile Leu Ala Ser Val
65 70 75 80

Lys Ala Thr Thr Leu Gly Val Ser Ser Asp Ser Pro Gly Thr Thr Thr
85 90 95

Leu Ala Gln Gln Val Ser Gly Pro Val Asn Thr Thr Val Ala Arg Gly
100 105 110

Gly Gly Ser Gly Asn Pro Thr Thr Ile Glu Ser Pro Lys Ser Thr
115 120 125

Lys Ser Ala Asp Thr Thr Val Ala Thr Ser Thr Ala Thr Ala Lys
130 135 140

Pro Asn Thr Thr Ser Ser Gln Asn Gly Ala Glu Asp Thr Thr Asn Ser
145 150 155 160

Gly Gly Lys Ser Ser His Ser Val Thr Thr Asp Leu Thr Ser Thr Lys
165 170 175

Ala Glu His Leu Thr Thr Pro His Pro Thr Ser Pro Leu Ser Pro Arg
180 185 190

Gln Pro Thr Leu Thr His Pro Val Ala Thr Pro Thr Ser Ser Gly His
195 200 205

Asp His Leu Met Lys Ile Ser Ser Ser Ser Thr Val Ala Ile Pro
210 215 220

Gly Tyr Thr Phe Thr Ser Pro Gly Met Thr Thr Thr Leu Pro Ser Ser
225 230 235 240

Val Ile Ser Gln Arg Thr Gln Gln Thr Ser Ser Gln Met Pro Ala Ser
245 250 255

Ser Thr Ala Pro Ser Ser Gln Glu Thr Val Gln Pro Thr Ser Pro Ala
260 265 270

Thr Ala Leu Arg Thr Pro Thr Leu Pro Glu Thr Met Ser Ser Ser Pro
275 280 285

Thr Ala Ala Ser Thr Thr His Arg Tyr Pro Lys Thr Pro Ser Pro Thr
290 295 300

Val Ala His Glu Ser Asn Trp Ala Lys Cys Glu Asp Leu Glu Thr Gln
305 310 315 320

Thr Gln Ser Glu Lys Gln Leu Val Leu Asn Leu Thr Gly Asn Thr Leu
325 330 335

Cys Ala Gly Gly Ala Ser Asp Glu Lys Leu Ile Ser Leu Ile Cys Arg
340 345 350

Ala Val Lys Ala Thr Phe Asn Pro Ala Gln Asp Lys Cys Gly Ile Arg
355 360 365

Leu Ala Ser Val Pro Gly Ser Gln Thr Val Val Val Lys Glu Ile Thr
370 375 380

Ile His Thr Lys Leu Pro Ala Lys Asp Val Tyr Glu Arg Leu Lys Asp
385 390 395 400

Lys Trp Asp Glu Leu Lys Glu Ala Gly Val Ser Asp Met Lys Leu Gly
405 410 415

Asp Gln Gly Pro Pro Glu Glu Ala Glu Asp Arg Phe Ser Met Pro Leu

420

425

430

Ile Ile Thr Ile Val Cys Met Ala Ser Phe Leu Leu Leu Val Ala Ala
435 440 445

Leu Tyr Gly Cys Cys His Gln Arg Leu Ser Gln Arg Lys Asp Gln Gln
450 455 460

Arg Leu Thr Glu Glu Leu Gln Thr Val Glu Asn Gly Tyr His Asp Asn
465 470 475 480

Pro Thr Leu Glu Val Met Glu Thr Ser Ser Glu Met Gln Glu Lys Lys
485 490 495

Val Val Ser Leu Asn Gly Glu Leu Gly Asp Ser Trp Ile Val Pro Leu
500 505 510

Asp Asn Leu Thr Lys Asp Asp Leu Asp Glu Glu Glu Asp Thr His Leu
515 520 525

<210> 4
<211> 503
<212> PRT
<213> Mus musculus

<400> 4

Met Pro Pro Thr Thr Ala Leu Ser Ala Leu Leu Leu Leu Leu Ser
1 5 10 15

Pro Ala Ser His Ser His Asn Gly Asn Glu Thr Ser Thr Ser Ala Ile
20 25 30

Lys Ser Ser Thr Val Gln Ser His Gln Ser Ala Thr Thr Ser Thr Glu
35 40 45

Val Thr Thr Gly His Pro Val Ala Ser Thr Leu Ala Ser Thr Gln Pro
50 55 60

Ser Asn Pro Thr Pro Phe Thr Thr Ser Thr Gln Ser Pro Ser Met Pro
65 70 75 80

Thr Ser Thr Pro Asn Pro Thr Ser Asn Gln Ser Gly Gly Asn Leu Thr
85 90 95

Ser Ser Val Ser Glu Val Asp Lys Thr Lys Thr Ser Ser Pro Ser Ser
100 105 110

Thr Ala Phe Thr Ser Ser Gly Gln Thr Ala Ser Ser Gly Gly Lys
115 120 125

Ser Gly Asp Ser Phe Thr Thr Ala Pro Thr Thr Thr Leu Gly Leu Ile
130 135 140

Asn Val Ser Ser Gln Pro Thr Asp Leu Asn Thr Thr Ser Lys Leu Leu
145 150 155 160

Ser Thr Pro Thr Thr Asp Asn Thr Thr Ser Pro Gln Gln Pro Val Asp
165 170 175

Ser Ser Pro Ser Thr Ala Ser His Pro Val Gly Gln His Thr Pro Ala
180 185 190

Ala Val Pro Ser Ser Ser Gly Ser Thr Pro Ser Thr Asp Asn Ser Thr
195 200 205

Leu Thr Trp Lys Pro Thr Thr His Lys Pro Leu Gly Thr Ser Glu Ala
210 215 220

Thr Gln Pro Leu Thr Ser Gln Thr Pro Gly Ile Thr Thr Leu Pro Val
225 230 235 240

Ser Thr Leu Gln Gln Ser Met Ala Ser Thr Val Gly Thr Thr Thr Glu
245 250 255

Glu Phe Thr His Leu Ile Ser Asn Gly Thr Pro Val Ala Pro Pro Gly
260 265 270

Pro Ser Thr Pro Ser Pro Ile Trp Ala Phe